UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO. : 7,321,026 B2 Page 1 of 17

APPLICATION NO. : 09/892613

DATED : January 22, 2008

INVENTOR(S) : Shawn Shui-on Leung

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Please amend SEQ ID NO: 38 and SEQ ID NO: 47 in the Sequence Listing as described below and as they appear in the attached Replacement copy of the Sequence Listing:

In SEQ ID NO: 38, the amino acid in position 5 for the WAS sequence should be a leucine rather than a valine. In SEQ ID NO: 47, the valine at position 5 in the heavy chain should also be a leucine rather than a valine. SEQ ID NO: 2, which appears in the original Sequence Listing submitted with the application on June 27, 2001, has the correct sequence. The errors in the Sequence Listing were typographical in nature, and therefore, correction is respectfully requested.

It is noted that the incorrect Sequence Listing, with only 32 sequences instead of 71, was printed with said Letters Patent. The attached Sequence Listing includes all 71 sequences in addition to the amendment currently requested.

Signed and Sealed this Eleventh Day of October, 2011

David J. Kappos

Director of the United States Patent and Trademark Office

SEQUENCE LESTING

```
<110> Leung, Shown Shui on
<120> REDUCTING IMMUNOGENECITIES OF IMMUNOGEOBILING BY FRAMEWORK PATCHENG
<130> 655
<140> US 89/892,613
<141> 2001-06-27
<170> Patentin version 3.3
<211> 369
<212> DNA
<213> Artificial Sequence
<2233 FR putched heavy chair variable region sequence (Full DNA
Sequence) formed by joining the N- and C- terminal (SSO 3 and 6)
halves at the Kpef site.
 چ220»
 gougtgoogs tystygogts tyggggaggs thagtgoogs slygagggts cotgaggets
tectglgcag cololggati cloctloagt atolatguea tytologgi kegecaggea
 ccgggaaayy ygstygsgtg gytsgcatas attagtagtg gtggtggtas cacclaslal
coagacacta tagasagacca atteaceate tecasagaca ataccaadau etecetutus
 etgennalga acagictgag ggigguggai acagicttat attactgige aagacatagi
 ggctacggta głagciacgg ggttttgttt gcttactggg gccaagggac tctggtuaut — 360
 gtetettea
 <2105 Z
 <2115 123
<2125 PRT
<2135 Chimaena sp.
 <400> 2
Glu Vat Gin Leu teu Glu Ser Gly Gly Gly Leu Val Gin Pro Gly Gly 1 5 10 15
 Sen Leu Ang Leu Sen Cys Alla Alla Sen Gly Pho Sen Pho Sen Tile Tyn
25 38
Asp Net Ser Tro Val Arg Gtn Ata Pro Gly Lys Gty Leu Glu Tro Val
35 45 45
 Ala Tyr Ile Sen Sen Gly Gly Gly Thr Thr Tyr Tyr Pro Asp Thr Val
50 55 60
Lys Gly Ang Phe Thr Ile Ser Ang Asp Ash Ala Lys Ash Ser Leu Tyr 65 78 88
 Leu Gin Met Ash Ser Leu Ang Val Giu Asp Thr Ala Leu Tyr Tyr Cys
85 99 95
 Ata Ang Mis Sen Gly Tyr Gly Sen Sen Tyr Gly Val Leo Phe Ata Tyr
100 105
 Trp Gly Gin Gly Thr Leu Val Thr Val Ser Ser
115 120
  <211> 111
<212> ONA
  <213> Antificial Sequence
 4223 N-templare is a synthetic sense-strand oligonucleotide encoding
amino acide 14-50 of the VII region (SEQ ID No. 2). The template
is PCR-amplified by two primers (SEQ ID No. 4 and 5)
  <220>
  <221> V_region
<222> (1)..(111)
  cotagogas coctagaet etectataco acetetagot tetecticas tatelatase.
  atatettygg ttegecogge ucegagunae gagetgaagt gagtegeata e
```

```
<212> DNA
<213> Artificial Sequence
<2233 5' Primer is a synthetic sense strond diagonucleatide encoding online acid 1-19 of the MH region (SIQ 10 No. 2). The 3' end of the primer overlaps with the 5'end of the template by 18 mucleolides.</p>
  <220>
<221> primer_bind
<222> (1)..(57)
  gaagtgeage tgetggagte tgggggggge (lagtgeage etggagggle eetgagg
  <210> S
<211: 48
<212> DNA
<213> Artificial Sequence
  <2285
<2235 3* Primer is a synthetic until-sense-strand oligonucleotide
encoding amino acid 43-5% of the VI region(SIQ ID No. 2). The
primer overlaps with the template by 21 nucleotides.
     <220>
    <221> primer_bind <222> (1)..(48)
     ghagging coaccaccae tochoatgin igagacccue iceagacc
   <210> 6
<211> 132
     <Z1Z> ONA
<Z13> Artificial Sequence
     <226>
    (22) ( terminal is a synthetic sense strana oligonuclectide encoding
amino acid 68-111 of the VH region (SLO ID No 2) The template is
PCR-coplified by two primers (SEQ ID No 7 and 8)
     <2205
<2215 V region
<2225 (1)..(132)
    <400> 6
Utable to conjugate a light of the transfer 
     gtggaggaeu cagachtata thactgtgda agacatagig gatacggtag tagalacggg \sim 120
     gttttgtttg ct
      <2100 /
<2110 60
<2120 DNA
<2130 Artificial Sequence</pre>
    <220>
<223> 5' Primer is a synthetic sense-strund oligonucleotide encoding amono axid 55.74 of the VM region (SEQ ID No.2). The 3' end of the primer averlaps with the 5'end of the template by 21 nucleotides.
       <2205
       ggtggtacco ectaclates agacustgtg aagggergat teaccatete eagagacaat - AM
      <2105 8
<21)5 57
<2125 DNA
<2135 Artificial Sequence
     <2205

<Z235 3' Primer is a synthetic anti-sense-strand diagonucleotide encoding arino acid 185-123 of the VM region (Sig ID No 2). The primer and the template overlaps by 21 nucleotides.
       <223> primer_bins
<222> (1)..(57)
        tgaagagaca gtgaccagag teeettggee coagtaagea aacaasacce eglaget
         <210> 9
<211> 321
<212> DNA
<213> Artificial Sequence
```

```
<220s</p>
<223s FR patched light chair variable region sequence formed by joining the N- and C- terminal (SEU 11 and 14) halves at the Kpcl site.</p>
<220>
gatatecogo tgacecogte terotectes elytetquet elytyggaga cagagleace
attagttgwa qaqwaagtea ggacattaqe aattatttaa ootggtatea geagaaacea
ggtaaggete egammeteet gatetactae metaglatut tacoollooga mateecatea
aggittengty geographic typodomogos thracteria cestragera cergagades -240
gaugatitig coasitacti ligocaacag gglaalacgo ticcgiggac glicg_{\rm H}laga — 300
ggcoccodgg tggcoatcaa a
<210> 18
<211> 107
<212> PRT
<213> Chimoero sp.
 <400> 10
Asp the Gin Met Thr Glin Ser Pro Ser Ser Leu Ser Alia Ser Val Gly 1 _{\odot} 5 _{\odot} 10 _{\odot} 15
Asp Ang Val Thm The Sem Cys Ang Ala Sem Glm Asp The Sem Asm Tym
28 38
tou Aon Trp Tyr Gln Gln tys Pro Gty tys Ato Pro tys Leu tou Ite
35 40 45
Tyr Tyr Thr Ser Tie Lew Ris Ser Gly Val Pre Ser Ang Pre Ser Gly 50 60
Sen Gly Sen Gly Thr Glu Phe Thr Leu Thr Ite Sen Sen Leu Gl<br/>n Phe 65 70 75 86
Glu Asp Phe Ala Thr Tyr Phe Cys Gln Gln Gly Asm Thr Lew Pro Trp
85 99 95
 The Phe Gly Gly Gly The Lys Vol Glu lle Lys
 <210> 11
<211> 108
<212> DNA
<213> Amifficial Sequence
  <22No
<2235 N-template is a synthetic sense-strond oligonucleotide encoding
armo acid 11-46 of the VL region (SEO ID No. 10). The template
is PCR-amplitied by two primers (SEQ ID No. 12 and 13)
  <220>
<221> V_negion
<222> (1)..(108)
 <4MOs. 11
ctgtctgcct ctgtgggaga cagagtcacc attagttgca gggcaagtca ggacattagc
  authatthau actggtatea geogranicea ggtaaggete egaaacte
  <210> 12
<211> 51
<212> ONA
<215> Artificial Sequence
  <22%>
5' Primer is a synthetic sense-strond oligonucleotide encoding anino ocid 1.17 of the MI region (SLQ 10 No 10). The 3' end of the primer overlaps with the 5'end of the template by 21
  <220>
<221> primer_bind
<222> (1)..(51)
  <400> 12
gatatecaga (gocceagte tecutectee elghetgee) etytigggogo e
  <210> 13
<211> 40
<212> 0NA
<213> Artificial Sequence
   <224>
```

```
<2235 3' Primer is a synthetic anti-sense-strand oligonucleotide
encoding amino acid 48-53. The primer and the template overlaps
by 18 nucleotides.
-220s
<221> primer_bind
<222> (1)..(40)
atutucragt gtagtagate aggagtiteg gageettace
<210> 14
<211> 120
<212> DNA
<213> Artificial Sequence
<2200
<2275 C-terminal is a synthetic sense strand oligonucleotide encoding
amino acid 59-38 of the VH region (SEQ 10 No 18) The template is
PCR-amplified by tow-primers (SEQ 10 No 15 and 16)
<220>
<221> V_region
<222> (1)..(120)
<400> 14
ccarcougut teagrageag taggetetage acagaattta eteteaceat tageteetq 60
cagecagaag attityccae itaettitye caucagygta atacyettee gtggaegtte — 120
 <210> 15
<211> 49
<212> ONA
 <213> Artificial Sequence
 «22» 5' Primer is a synthetic sense strand oligonucleotide encoding
amine acid 50 65 of the VH region (SEQ ID No. 18). The 3' end of
the primer overlaps with the 5'end of the template by 21.
 <221> primer_bind <222> (1)..(49)
 ctocarrayt atatracact caygogteec atcaaggite agiggeagi
 <210> 16
<211> 48
<212> DNA
<213> Artificial Sequenca
 4223» 3' Primor is a synthetic anti-sense strand oligonucleotide
encoding anino acid 92 197 of the VII region (SEO ID No 10). The
primer and the template overlaps by 21 nucleotides.
 <221> primer bind
<222> (1)..(48)
  tilgatites vertiggigs etermegaa syttesangga agagtati
 <21Hs 17
<21ts 871
<212s UNA
<213s Artificial Sequence
  <220>
<221> V region
<222> (1)..(371)
  cuggigance tggiggette aggggelgag glabalaage etggggeele agtgaupgie 60
  textgemagg eltetggeta cacattiace agitacaata tgemetgggi aeggemaget 120
  cciggonggg gcctggootg gattggagct atttatetag gaaatggtga tastagttad \sim 180
  antragonal transgenous agreements artificial antertrag coloquettic -240
  alacactes acoutetable atcladada telephotes attactator apparence 300
  tacaatagta actacgraga etectitiaac tactgaggee eegacoccoc igitacagte — 360
  tectotagic a
  <210> 18
<211> 123
```

```
<212> PRT
<213> Chimaena sp.
<400> 18
Gin Wat Gin Low Val Ata Ser Gty Ala Giu Val Ash Lys Pro Gly Ala 1 $\rm S_{\odot}$ 10 \rm H_{\odot}
Sen Val Lys Val Sen Cys Lys Ala Sen Gly Tyn Thr Phe Thr Sen Tyn
29 25 30
Asm Met His Trp Val Arq Glm Pro Pro Gly Arq Gly Leu Glu Trp Ile
35 40 45
Gly Ald I'e Tyr Pro Gly Ash Gly Asp Thr Sen Tyr Ash Gln Lys Phe 50 60
Lys Gly Lys Ala Thr keu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr GS -75 -80
Het Glin Leu Sen Sen Leu Thri Sen Gliu Asp Sen Alia Vol Tyr Tyr Cys 85 9\% 95
Ata Ang Ser His Tyr Gly Ser Asn Tyr Val Asp Tyr Phe Asp Tyr Trp
188 195 118
Gly Glo Gly The The Val The Val See See Asp
115 120
 <210> 19
<211> 114
<212> UNA
<213> Artificial Sequence
 <ZZOS

<ZZOS N template is a synthetic sense strand aligerucleatide encoding

amino acide 12-40 of the VH region (SEQ 10 No. 18). The template

is PCR-amplified by two primers (SEQ ID No. 20 and ZI)
 <221> V region
<222> (1)..(114)
  anlangecty gagesteagt ganggistes typologist elegistatus attitusingt
  tacoatatge actgggtong geogeotect gganggggen tagaatggat taga
 <210> 26
<211> 57
<212> DNA
<213> Artificial Sequence
 <223> 5' Primer is a synthetic sense-strand oligorucleotide encoding
permo acid 1-19 of the VII region (SEO ID No 18). The 3' end of
the primer averlaps with the S'end of the template by 24
  <220×
  coggiganac tygingactic eggggerigan glacomange enggggeere agligang
  <210> 21
<211> 35
<212> UNA
<213> Artificial Sequence
  <220>
<223> 3' Primer is a synthetic anti-sense strand oligonucleoxide encoding amino acid 43-60 of the Wi region (SEU ID No. 18). The primer and the template overlaps by 21 nucleotides.
  <220>
<221> primer_bind
<222> (1)..($5)
   tgtaactagk akcaccattt cctggataaa tagctccaat ccattccagg cccct
   <210> ZZ
<Z11> 1Z6
<Z12> DNA
   <213> Artificial Sequence
   <223> C-(erminal is a synthetic sense strand oligonucleotide encoding
unino acid 70 111 of the VH region (SEO ID No 18) The template is
PCR-amplified by tow primers (SEO ID No 23 and 24)
```

```
<220>
<221> V_region
<222> (1)..(126)
tigactycag acadatecte cogeocogec topotycoge trogcogtet guestityog
quetetacqui tetattacta tacacaatca cactacaata ataactacat aaactacttt 120
gactac
<210> 23
<223> 5' Primer is a synthetic sense strand alignmucted lide encoding online acid 57.76 of the VM region (SEQ ID No.18). The 3' end of the primer overlaps with the 3'end of the template by 21 nucleotides.
<2205
<2215 primer_bind
<222> (1)..(61)
tyatactagt tacuatcaga aattcaaggg caaggecaca tigaetgcag acaaatcete
<Z10> 24
<211> S9
<212> ONA
<213> Artificial Sequence
<2235 3' Primer is a synthetic until sense strand oligonucleatide
encoding unino used IRS 123 of the Milregion (SEQ ID No 18). The
primer and the template overlaps by 21 nucleotides.
<220>
<221> primer_pind
<222> (1)..(59)
 tgatcagagg agactgloac agtggtgcct tggccccayt agtcasagta gtctacgta
<210> 25
<211> 321
<212> DNA
 <213> Artificial Sequence
<223s IR-patched light chaim variable region sequence (full DNA
Sequence) formed by joining the N- and C- terminal (SEQ 27 and
30) halves at the BspET site.
 <220>
<221> V_megion
<222> (1)..(321)
 gatattcaac\ tcacacagte\ tccatcaagt\ ctttctgcat\ ctgtggggga\ cagagtcaca
 attacttgca gggccagete aagtttaagt ticatgeact gglaccagea gaagecagga 120
 techcocca advectiggat thatgecaca locadocligg clicoggagi cociagloge 180
 throughgges graggating gazagagting actividades traggagtil gasagatiges 24%
 gairlegeen ettätitety eentengtyy nytoytanee eyeteneytt egytyetyng 300
 accaagetga cegttetacq q
 <210> 26
<211> 107
<212> PRT
<214> Chinaera sp.
 Asp Ite Gin Leu Thr Gin Ser Pro Ser Ser Lau Ser Ata Ser Vol Giy I 5 10 15
 Asp Arg Val Thr Ite Thr (ys Arg Ala Ser Ser Ser teu Ser Phe Met 20 25 30
 His Trp Tyr Gln Gln Lys Pro Gly Ser Ser Pro Lys Pro Trp Ile Tyr 35 40 45
 Also Thr Ser Ash Leu Also Ser Gly Val Pro Ser Ang Phe Ser Gly Ser 50 \\ 0 \\ 0 \\ 0
```

```
Gty Sen Gly The Glu Phe The Leu The Ita Ser Ser Leu Gin Pro Glu 65 75 80
Asp Phe Alia Thr Tyr Phe Cys Hils Glin Trp Ser Ser Asn Pro Leu Thr
Phe Gly Ala Gly Thr Lys Leu Thr Val Leu Arg
<210> 27
<211> 129
 <212> DMA
<213> Artificial Sequence
<225> N Template is a synthetic sense-strand oligonucleotide encoding
union acide 9-51 of the VL region (510 TO No. 26). The template
is PCR amplified by two primers (SLQ TO No. 28 and 29)
 <220>
<221> V region
<222> (1)..(129)
 twogtelil etgeatetgt gygygucuga gteacoatta ettgeaggge eageteaagt
 theagittee recorded a congague acquirer accessors atquittet 120
 geografica
 <210> 28
<211> 45
<212> DNA
<213> Artificial Sequence
  **223> 5' Primor is a synthetic sense strand oligonucleotide encoding arine acid 15 of the VH region (500 ID No 26). The 3' end of the primor overlaps with the 5'end of the temptate by 21 nucleotides.
  <225s primer bind
<222s (1)..(45)
  garattesas teasosagts recotsoogt chitetysal sigig
  <212> DNA
<213> Antificial Sequence
  <223b 3' Primer is a syntholic anti-sense strand oligonucleotide
encoding amino acid 45-57. The primer and the template overlaps
by 21 macleotides.
  <220s
<221> primer_bind
<222> (1)..(40)
  ggutticgga agccagging gungnygtat acateougag
  2210s 30
  <<10> 36
<<11> 120
<<12> DNA
<<115 Artificial Sequence</pre>
  <2235 Exterminal is a synthetic sense-strand oligonucleotide encoding
arino acid 61-100 of the VI region (SEQ 10 No 26) The template is
PCR-amplified by tax privers (SEQ 10 No 31 and 32)
   <220>
  thoughages atgagitetag gaccamante actoteses trageogitt geogeotype 60
  gattteacca citatificing coateagray agraquance eyeleacytt egytyctagg — 120
   <210> 31
<211> 43
<212> DNA
<213> Artificial Sequence
   <220>
<220> S' Primer is a synthetic sense strand oligonucleotide encoding anino acid 54 67 of the VH region (SEC 12 No 18). The 3' end of the primer overlaps with the 5'end of the template by 21 months due.
```

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<220>
<221> primer_pind
<222> (1)..(43)
<480> 31
gguttuagga gtaaltagta gattaagtgg lugtygglat ggg
                                                                                                                                                                                                                               43
<210> 32
<211> 42
<212> DNA
<213> Artificial Sequence
<2285
<223> 3' Primer is a synthetic anti-sense-strand alignmucleotide
encoding amino acid 94-107 of the VH region (SEO 1D No 25). The
primer and the template overlaps by 21 nucleotides.
  <221> primer_bino
<224> (1)..(42)
  ccytagaacg gtcaycttgg teccaycuct gaucqtgage gg
  <210> 33
<211> 123
   <400> 33
  Glu Vol Gln Leu Vol Glu Ser Gly Gly Gly Leu Vol Lys Pro Gly Gly L_{\rm S} 10 _{\rm 1S}
  Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Pho Ala Pho Ser Ile Tyr
20 25 30
  Asp Net Ser Trp Vol Ang Glin The Pro Glu Lys Ang Leu Glu Trp Vol
35 48 45
  Also Tyr Tie Ser Ser Gly Gly Gly Thr Thr Tyr Tyr Pro Asp Thr Val S0 \phantom{-} 60
  tys Gly Arg Phe Thr Ite Ser Arg Asp Ash Ata Lys Ash Thr Leu Tyr
65 70 75 88
   Leu Gin Met Son Sen LAu Lys Son Glu Asp Thri Ala Whit Tyr Tyr Cys. 85 99
    Ala Arg His Son Gly Tyn Gly Sen Sen Tyn Gly Val Lou Phe Ala Tyn
180 181
    Trp Gly Gln Gly Thr Lea Val Thr Val Ser Ala
115 120
    <210> 34
<211> 107
<212> PRT
<213> Antibody
     <480> 44
     Asp IIe Gin Met. The Gin The The See See Leu See Ala See Leu Gly 1 _{\odot} 5 _{\odot} 18 _{\odot} 18
    Asp Ang Val The Tile Sen Cys Ang Alia Sen Gin Asp Tile Sen Ash Tyn {\it Z}{\it H} = {\it Z}{\it H} 
     Leu Asn Inp Tyr Gin Gin Lys Pre Asp Gly Thr Val tys Leu Leu [ie 35 40 45
    Tyr Tyr Thr Son Ite Leu His Son Gly Val Pro Son Ang Phe Son Gly S0 60
     Ser Gly Ser Gly Thr Asp Tyr Ser Low Thr Ite Ser Ash Lew Glu Glm 65 70 75 80
     Glu Asp Phe Ala The Tye Phe Cys Gln Gln Gly Ash The Leu Pro Tep 85 - 90 - 95
      Thr Phe Gly Gly Gly Thr Lys Lew Glu He Lys 100 105
```

```
<213> Immunoglobulin
Glu Val Gim Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly II 15 16 16 15
Sur Lou Lys Lou Ser Cys Ala Ala Ser Gly Phe Ala Phe Ser Ile Tyr
20 25 3a
Asp Met Ser Trp Vol Ang Gin The Pro Giu Lys Ang Leu Giu Trp Vol .35 -4\theta -45
Also for the Sec Sec Giy Giy Giy The The Tye Tye Pro Asp The Vql SH $55
Lys Gly Ang Phe Thr Ile Ser Ang Asp Ash Ald Lys Ash The Lou Tyr
65 76 80
Leu Glin Met Ser Ser Leu tys Ser Gliu Asp Thr Ata Met Tyr Tyr Cys
85 92 95
Ala Ang His Sen Gly Tyn Gly Sen Sen Tyn Gly Val Leu Phe Ala Tyn
186 185 186
Trp Gly Glm Gly Thr Lau Yol Thr Yal Ser Ata
115 120
Olu Val Gin Lew Val Clu Ser Oly Gly Gly Lew Val Pre Gly Gly Ser T $\rm S_{\odot}$ 10 $\rm 15^{\circ}
teu Anglieu Sen Gys Ata Thr Thr Gly Phe Ata Phe Sen
28 - 25
 <2105 | 37
<2115 | 30
<2125 | 987
<2135 | Fazonoglobulin
 6in Val Gin Leu Voi Giu Ser Giy Giy Giy Val Val Gin Pro Giy Ang
1 5 19 15
 Ser Leu Ang Lou Ser Cys Ale Ale Ser Cly Phe Ser Phe Ser
20 25 39
 <210> 38
<211> 36
<212> 987
<213> Immunoglobulan
 Glu Val ein Leu Leu Glu Sen Gly Gly Gly Leu Val Glin Peo Gly Gly
1 5 18 18
 Sen Leu Ang Leu Sen Cys. A) a Alia Sen Gly Phe Sen Phe Sen
28 - 25 - Wi
 <210> 39
<211> 14
<212> Pk1
<213> Immunoglobulin
 Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala
1 5 10
  <2105 48
<2115 33
<2125 PRT
<2115 Immunoglabulin
  Ang Phe Thr lie Ser Ang Asp Ash Ald Lya Ash Ser Leo Tyr Leo Gib 1 _{\odot} 5 _{\odot} 15
  Met Asn ser teu Ang Vali Glu Asp Thr Ata Leu Tyr Tyr Cys Ale Ang
28 - 39 - 39
```

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<210> 41
<211> 11
<212> PRT
<213> Immunoglobulin
<400> 41
Trp fily Gin Gly The Lew Val The Yal See The 1 5 10
<210> 42
<211> 107
<212> PRT
<413> Immunoqlobulin
Asp IIe Gin Met Thr Gin Thr Thr Son Ser Leu Ser Ala Ser Leu Gly 1 5 10 15
Asp Ang Val Thr The Ser Cys Ang Alia Ser Gth Asp The Ser Ash Tyr
28 25 30
Leu Asn Trp Tyr Gln Gln Lys Pro Asp Gly Thr Val Lys Leu Leu Ile
35 40 45
Tyr Tyr Thr Ser flk Leu his Ser Gly Val Pro Ser Ang Phe Ser Gly {\bf 58} {\bf 60}
Sen Gly Sen Gly Thr Asp Tyn Sen Leu Thr Ile Sen Ash Leu Glu Sln 65 -70 -75 -80
Glu Asp Phe Alia Thr Tyr Phe Cys Glin GLy Ash Thr Leu Pro Trp 85 - 90 - 95
The Phe Gly Gly Gly The Lys Leu Glu He tys 100 105
<210> 43
<211> 23
<212> PRT
<213> Inmunoglobulin
 Asp Tte Gln Met. The Gtn Sen Pro Sen Sen Leu Sen Ala Sen Val Gty 1 \phantom{-} 5 \phantom{-} 10 \phantom{-} 15
 Asp Ang Val Thm Ite Sem Cys 20
 Trp Tyr Gln Gln Lys Pro Gly Lys Ald Pro Lys teu Leu Ile Tyr 1 $\rm 10^{\circ}
  <210> 45
<211> 42
<212> PRT
<214> Immunigation
 Gty Val Pro Ser Ang Phe Sen Gty Sen Gty Sen Gty Thr Glu Phe Thr 1 - 19 15
 Leu Thr Ele Ser Ser Leu Glin Pro Glu Asp Phe Alu Thr Tyr Phe Eys
29 2S 30
  <210> 46
<211> 10
<212> PRT
<213> Immunoglobutin
  Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
1 5 10
  <210> 47
<211> 123
<212> PRT
<213> Immunoqlobulin
```



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<210> 50
<211> 107
<212> PRT
<213> Inmudoglobutin
Glu tys Val Thr Met Thr Cys Ang Ala Ser Ser Ser Lea Ser Phe Met 20 $25$
His Trp Tyr Gln Gln Lys Pro Gly Ser Ser Pro Lys Pro Trp Tle Tyr
35 40 45
Ald The Ser Ash Leu Ala Ser Gly Val Pro Ala Ang Phe Ser Gly Ser 50 60
Gly Sen Gly The Sen Tye Sen Leu The Ete Sen Ang Vol Glu Ata Glu GS 75 88
Asp Ala Alu Thr Tyr Phe Cys H.s Gln Trp Ser Ser Ash Pro Leu The 85 90 95
Pho Gly Ald Gly Thr Lys Leu Glu Leu Lys Arg
100 105
<210» 51
<211» 123
<214» PRT
<213» Immunoglobulin
 Glm Val Gin Leu Arg Gin Pro Gly Ala Giu Leu Val Lys Pro Gly Ala 1 $\rm 10^{\circ} 10^{\circ}
 Sen Valluys Ant Ner Cys Lys Ald Sen Gly Tyn Thr Phe Thr Sen Tyn
20 25 30
 Asn Met His Trp Val Lys Eln The Pro Gly Gln 6ty Leu Glu Trp He
35 40 45
 Gly Ata the Tyr Pro Gly Ash Gly Asp Thr Ser Tyr Ash Gln Lys Phe 50 ^{\circ} 55 ^{\circ} 60
 tys Gly tys Ala Thr Lea Thr Ala Asp tys Sen Ser Ser Thr Ata Tyr
65 76 88
 Met Gin Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
85 90 95
 Also Arg Ser His Tyr Gly Ser Asn Tyr Val Asp Tyr Phe Asp Tyr Trp 100 105 110
 Gly Glm Gly The The Leu The Val See See Asp
115 120
 <23%> S2
<211> 30
<212> PRT
<213> Intunglobulin
  <480> 52
 GIn Vol Gin Leu Vol Ala Ser Giy Ala Giu Vol Asm Lys Pro Giy Ala 1 5 10 15
  Sen Val. Lys. Val. Sen Cys. Eys. Ala Sen Gty Tyn Thin Phe. Thin 20 -25 - 36
  <210> 53
<211> 14
<212> PRT
<213> Intunoglobulin
  Trp Val Arg Gln Pro Pro Gly Arg Gly Leu Glu Trp Ile Gly 1 \ 5 \ 10
  <210> 54
<211> 32
<212> PRT
<213> Impunoglobal in
  <400× 54
```

```
Arg Vol Thr 11e Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr Met 6.\alpha 1 ^{\circ} 15 ^{\circ} 15
teu Ser Ser teu Arg Ser Gtu Asp Thr Ala Val Tyr Tyr Cys Ala Arg \frac{2\theta}{25} \frac{2\theta}{4\theta}
Ang Alo Thr Ile Ser Vul Asp Thr Ser Lys Ash Gin Phe Ser Leu Ash 1 $\rm S_{\odot}$ 19 $\rm 15
Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Cys Cys Ala Arg
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1 10
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Gin He Val Leu Ser Gin Ser Pro Ala He Leu Ser Ala Ser Pro Giy I _{\rm S} _{\rm S}
 Glu Lys Val Thr Wet Thr Cys Ang Alu Ser Ser Ser Leu Ser Phe Met
28 25 30
 His Irp Tyr Glm Glm Lys Pro Gly Sen Sen Pro Lys Pro Trp He Tyr
35 40 45
 Ata Thr Ser Ash teu Ata Ser Gly Val Pro Ata Arg Phe Ser Gly Ser S0 _{\odot}
 Gly Ser Gly The Ser Tyr Ser Lew The He Ser Ang Val Glu Ala Glu 65 75 80
 Asp Ala Ala Thr Tyr Phe Cys His Gln Trp Ser Ser Asr Pro Leu Thr
85 90 95
 Phe Gly Ala Gly Thr Lys Leu G'u Leu Lys Arg
100 105
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 Asp Ang Val Thr Ile Thr Cys
20
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 Ash Leu Met Leu Ele Gin Pro Pro Ser Yal Ser Giu Ser Pro Gly Lys
1 5 10 15
 The Val The Met The Cys
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1 S 16 15
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Let The Die Ser Ser Let Gin Pro Glu Asp Phe Ala The Tyr Phe Cys $20$
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Lou Thr Ele Ser Ser Leu Ang Pro Glu Asp Vq) Ala Thr Tyr Phe Cys
28 ZS 30
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